

**MINUTE ITEM**  
This Calendar Item No. C51 was approved as  
Minute Item No. 51 by the California State Lands  
Commission by a vote of 3 to 0 at its  
11-21-06 meeting.

**INFORMATIONAL  
CALENDAR ITEM  
C51**

A 54, 55

11/21/06

W 16001

W 10439

V. Duda

S 27, 28

**STAFF REPORT ON THE  
MONITORING OF POSSIBLE SUBSIDENCE,  
LONG BEACH UNIT, WILMINGTON OIL FIELD,  
LOS ANGELES COUNTY**

**PARTY:**

California State Lands Commission  
100 Howe Avenue, Suite 100-South  
Sacramento, CA 95825-8202

**BACKGROUND:**

The City of Long Beach conducts surveys twice each year, in May and November, for the purpose of monitoring changes in ground elevation of the Long Beach tidelands and adjacent areas. The Commission's staff reviews and interprets the benchmark elevation data from these semi-annual surveys. This report covers benchmarks surveyed in May 2006 and compares elevation changes that have occurred since completion of the previous survey in November 2005.

The Harbor District remained stable with the exception of two areas. An elevation gain of up to 0.075 feet (0.90 inches) occurred throughout the eastern district overlying Fault Blocks IV and V. A loss of -0.076 feet (-0.91 inches) was measured in the middle of Pier S, overlying Fault Block III. These elevation changes were due to the increased oil production and realignment of water injection in the Harbor District.

Elevation losses continue over the curtailed Tar steam flood area west of Henry Ford Avenue. A loss of -0.076 feet (-0.91 inches) was measured on Pier S, south of the Cerritos Channel. The steam flood, initiated in the 1980s, was terminated in 1999 because of possible subsurface compaction that may have been caused by high temperatures derived from the steam injection.

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Elevations throughout the Civic Center, Central City, Alamos Bay, and Naples remained stable or increased slightly. A minor elevation increase of 0.027 feet (0.32 inches) occurred in the Civic Center. The oil islands remained stable except for a minor elevation gain of 0.033 feet (0.40 inches) at Island White.

The results of the next regular elevation survey, to be conducted in November 2006, will be reported to the Commission after the data have been received and analyzed by the Commission's staff.

**EXHIBIT:**

A. Location Map

**PERMIT STREAMLINING ACT DEADLINE:**

N/A (not a "development project" subject to the Act)

